

Traveler Title:

Booster Multipole Magnet Impregnation Traveler

Specification No:

333844

Revision:

None

DR No:

4458

Step No:

11.12

Drawing No:

445311

Routing Form No:**Serial No:**

BMA022

Rework ID:

0

Discrepancy Description:

During the MTF pre-installation check-out of BMA022, it was discovered that the NQ and SS circuits are shorted together. In addition, subsequent inspection at IB2 showed that the NQ polarity is reversed.

Originator:

Jamie Blowers

Date:

11/12/2007 1:42:31 PM

Cause of Nonconformance:

The short occurred at some point during the potting process, and the hipot tests did not show the problem because one of the hipot leads was faulty. In addition, the NQ polarity is reversed because the leads were accidentally swapped during the lead trimming process, and this was done after the polarity test was completed (see attached writeup for more details).

Responsible Authority:

Jamie Blowers

Date:

11/15/2007 1:42:31 PM

Disposition:

Since the magnet is already potted we cannot correct either of these problems. Regarding the polarity reversal, switch the labels on the terminal block and attach a tag to the magnet stating that the polarity of the NQ circuit is reversed so the power leads need to be installed in reverse.

This magnet can be considered an "emergency spare", since it can be operated without using either the NQ or the SS circuits (i.e. one of these circuits can be left floating and the rest of the magnet will operate normally).

Disposition verify notes: Magnet BMA022 NQ Coil Terminal Blocks have had their Polarity Labels reversed. The Manifold Protector Bar was also labeled to reflect Reverse Polarity of the NQ Coil Terminal Block. (Bob Jensen 11/20/07)

Responsible Authority:

Jamie Blowers

Date:

11/15/2007

Corrective Action to Prevent Recurrence:

The lead on the hipoter has been corrected, and hipoters will be reprogrammed to fail if there is no current flowing. The coil leads which are connected to the terminal blocks will have black and red shrink tubing installed before the first polarity test in the assembly traveler. This tubing will then serve to easily identify the correct placement/connection of the leads in subsequent steps of the assembly and potting travelers. The necessary visual inspections will also be added to the potting travelers.

Disposition verify notes: (TRR1941 (TR-33381) and TRR1942 (TRR-333844) have been issued for updating the travelers. Bob Jensen 11/20/07).

Responsible Authority:

Jamie Blowers

Date:

11/15/2007

Corrective Action/Disposition Verified By:

Bob Jensen

Date:

11/20/2007 8:44:10 AM

Will Configuration be affected?:☐ YES ☒ NO**Identified problem area:**☐ Material ☐ Manpower ☒ Method ☐ Machine ☐ Measurement**Reviewed By:**

Bob Jensen

Date:

11/20/2007